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Nelson

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[54] **INSULATION STRUCTURE FOR APPLIANCES**

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Related U.S. Application Data

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[52] **U.S. Cl.** ..... **156/276**; 52/809; 53/431; 53/452; 53/467; 53/469; 53/474; 134/58 S; 156/146; 156/227; 156/292; 312/229; 312/237; 312/242; 428/76

[58] **Field of Search** ..... 156/276, 146, 292, 227; 53/431, 469, 452, 474, 467; 428/76; 52/809; 312/229, 242, 237; 134/58 S

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[57] **ABSTRACT**

An insulation panel for an appliance for reducing one or more undesirable side effects due to the operation of the appliance such as noise, vibration and heat includes a first layer of enclosing material such as polyethylene or polypropylene which has greater tear resistance and configuring this first layer of enclosing material to a size and shape based upon the appliance and the area of the appliance to be covered. Next, a second layer of similar enclosing material is selected and configured so as to having a matching peripheral edge or contour with the first layer. Ultimately these two layers of enclosing material are joined together around their peripheral edges so as to define and completely enclose an interior cavity. Into this interior cavity a blanket of insulating material is dispersed of a generally uniform blanket thickness. In certain applications, the insulating material includes a binder so that the insulating material will not shift or settle relative to the enclosed cavity. The particular insulating material may either be selected for acoustical insulation, vibration dampening and/or thermal insulation. A singular purpose of the insulating material may be desired or multiple uses may be desired in which case part of the enclosed cavity may include acoustical insulation and part of the enclosed cavity may include vibration-dampening material.

24 Claims, 6 Drawing Sheets